

Name: \_\_\_\_\_

Teacher: \_\_\_\_\_

Algebra Pd: \_\_\_\_\_

\_\_\_\_\_  
Day

\_\_\_\_\_  
Month

\_\_\_\_\_  
Year

## Constant of Proportionality Practice

Are the tables below proportional? **You must show work to justify your answer.** (If so, what is the constant of proportionality?). Can you write the equation?

1.)

$x$ Amount of Candy (pounds)	$y$ Cost (dollars)
5	10
4	8
6	12
8	16
10	20

Yes or No

Why or why not?

If so, what's the constant of proportionality?

2.)

$x$ Number of Days	$y$ Cost (dollars)
6	2
9	3
24	8
3	1

Yes or No

Why or why not?

If so, what's the constant of proportionality?

3.)

Number of Cars Sold	Money Earned (in dollars)
1	250
2	600
3	950
4	1,076
5	1,555

Yes or No

Why or why not?

If so, what's the constant of proportionality?

4.)

$x$ Time (h)	$y$ Snowfall (in.)
2	10
6	12
8	16
2.5	5
7	14

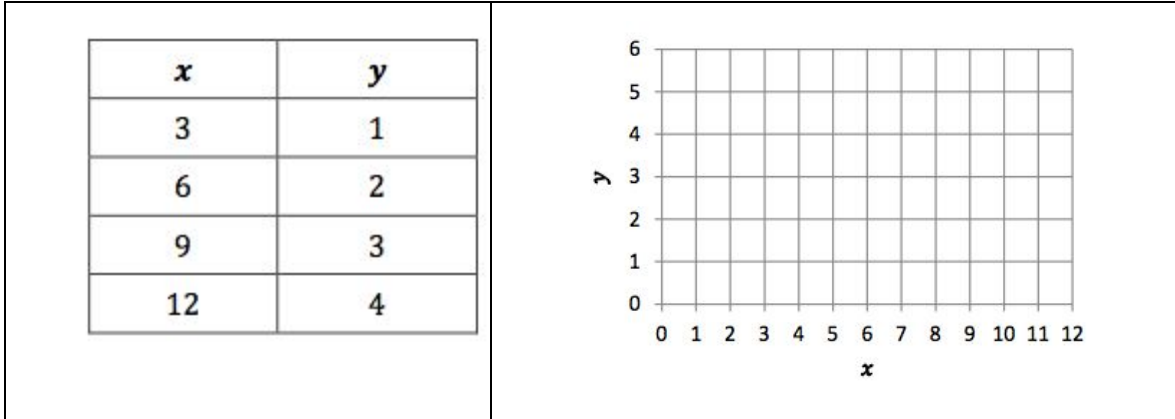
Yes or No

Why or why not?

If so, what's the constant of proportionality?

Graph the following tables and identify if the two quantities are proportional to each other on the graph. Explain why or why not?

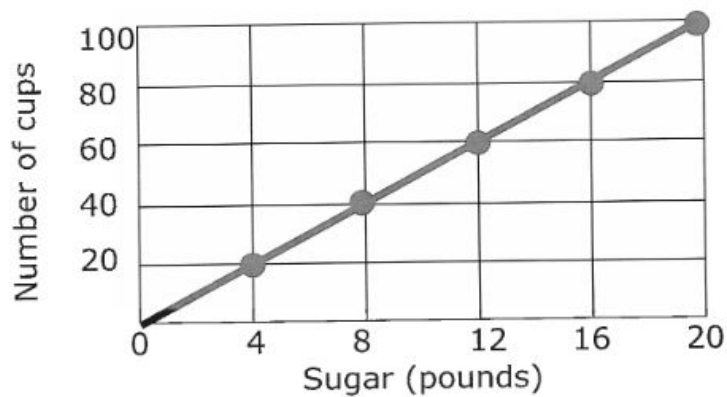
5.)



Are they proportional? Explain.

6.)

2. The graph below represents the total number of cups of coffee and the total amount of sugar required to make the coffee. What is the constant of proportionality?



Is this proportional? Explain.